10520136aa

* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:09:40 ON 25 JUL 2007

=> fil reg
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 18:10:07 ON 25 JUL 2007
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http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\Stnexp\Queries\10520136aa.str

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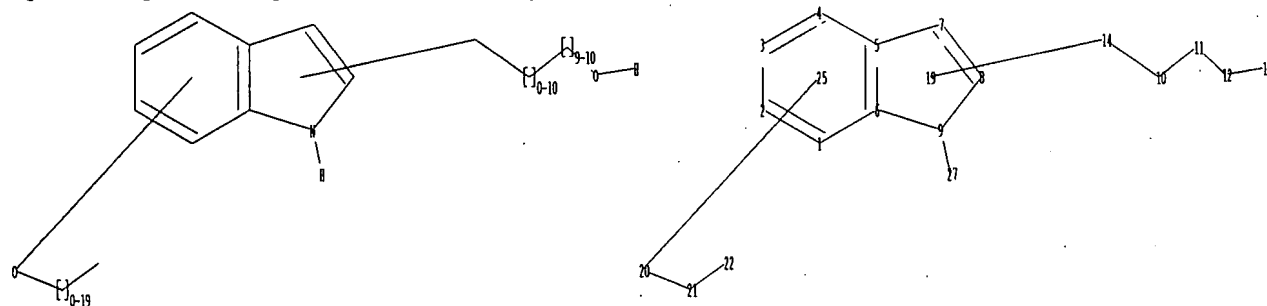
10520136aa

chain nodes :
10 11 12 13 14 20 21 22 27
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
9-27 10-11 10-14 11-12 12-13 20-21 21-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 8-9 11-12 20-21
exact bonds :
9-27 10-11 10-14 12-13 21-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 19:Atom 20:CLASS 21:CLASS 22:CLASS
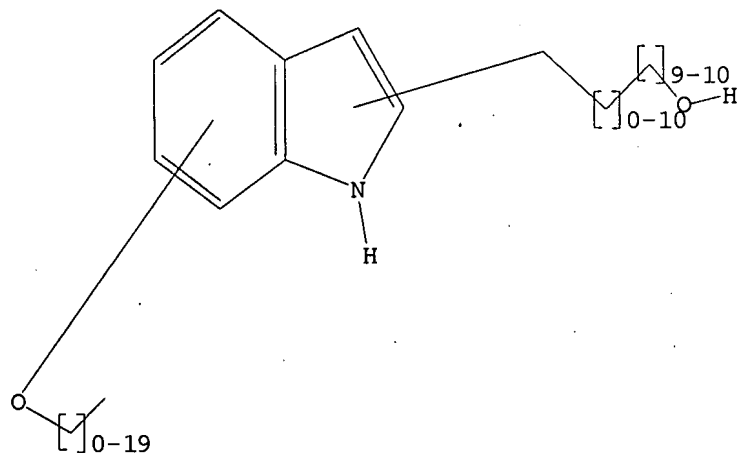25:Atom 27:CLASS

L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 18:10:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   120316 TO ITERATE

100.0% PROCESSED   120316 ITERATIONS   26 ANSWERS

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10520136aa

SEARCH TIME: 00.00.02

L2   26 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                 ENTRY   SESSION
FULL ESTIMATED COST   172.10   172.31

=> s l2
L3   2 L2

=> d ibib abs hitstr tot

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10520136aa

ACCESSION NUMBER: 2004:890657 CAPLUS
DOCUMENT NUMBER: 142:74411
TITLE: Effects of Indole Fatty Alcohols on the
                           Differentiation of Neural Stem Cell Derived
                           Neurospheres
AUTHOR(S):   Coowar, Djalil; Bouissac, Julien; Hanbali, Mazen;
                           Paschaki, Marie; Mohier, Eliane; Luu, Bang
CORPORATE SOURCE: Laboratoire de Chimie Organique des Substances
                           Naturelles, UMR 7123 CNRS, and Neurotransmission et
                           Secretion Neuroendocrine, UPR 2356 CNRS, Universite
                           Louis Pasteur, Strasbourg, 67084, Fr.
SOURCE: Journal of Medicinal Chemistry (2004), 47(25),
                           6270-6282
                           CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S):   CASREACT 142:74411

AB   In a search for inducers of neuronal differentiation to treat
     neurodegenerative diseases such as Alzheimer's disease, a series of indole
     fatty alcs. (IFAs) were prepared Thus, 5-methoxy-1H-indole-3-octadecanol
     was able to promote the differentiation of neural stem cell derived
     neurospheres into neurons at a concentration of 10 nM. Anal. of the
expression
     of the Notch pathway genes in neurospheres treated during the
     differentiation phase with 5-methoxy-1H-indole-3-octadecanol revealed a
     significant decrease in the transcription of the Notch 4 receptor.
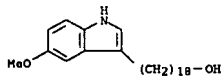
IT   651331-34-9P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation)
        (preparation of (methoxy)-1H-indole-3-octadecanol and study of its
activity
        toward promotion of differentiation of neural stem cell-derived
        neurospheres into neurons)
RN   651331-34-9 CAPLUS
CN   1H-Indole-3-octadecanol, 5-methoxy- (9CI)   (CA INDEX NAME)
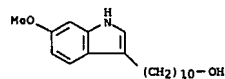

IT   812653-17-1P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation)
        (preparation of (methoxy)indole fatty alc. and study of its activity as
        radical scavenger toward azinobis[(ethyl)dihydrobenzothiazolesulfonic
        acid])
RN   812653-17-1 CAPLUS
CN   1H-Indole-3-hexadecanol, 7-methoxy- (9CI)   (CA INDEX NAME)

IT   651331-26-9P 651331-27-0P 651331-28-1P
     651331-30-5P 651331-31-6P 651331-32-7P
     651331-35-0P 651331-37-2P 651331-38-3P
     651331-39-4P 812653-16-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
     (Biological study)
        (preparation of (methoxy)indole fatty alc. and study of its activity
toward
        promotion of differentiation of neural stem cell-derived neurospheres
        into neurons)
RN   651331-26-9 CAPLUS
CN   1H-Indole-3-decanol, 5-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-27-0 CAPLUS
CN   1H-Indole-3-decanol, 4-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-28-1 CAPLUS
CN   1H-Indole-3-tetradecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-30-5 CAPLUS
CN   1H-Indole-3-decanol, 6-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-39-4 CAPLUS
CN   1H-Indole-3-tetradecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

RN   812653-16-0 CAPLUS
CN   1H-Indole-3-octadecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

IT   651331-33-8P 651331-36-1P 651331-40-7P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation)
        (preparation of (methoxy)indole fatty alc. and study of its activity
toward
        promotion of differentiation of neural stem cell-derived neurospheres
        into neurons and study of its activity as radical scavenger)
RN   651331-33-8 CAPLUS
CN   1H-Indole-3-hexadecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-36-1 CAPLUS
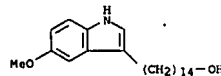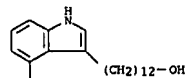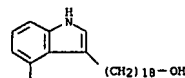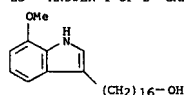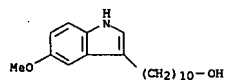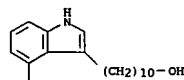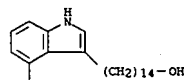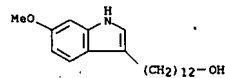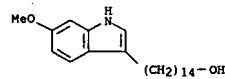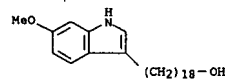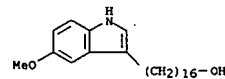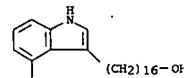CN   1H-Indole-3-hexadecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-31-6 CAPLUS
CN   1H-Indole-3-dodecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-32-7 CAPLUS
CN   1H-Indole-3-tetradecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-35-0 CAPLUS
CN   1H-Indole-3-dodecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-37-2 CAPLUS
CN   1H-Indole-3-octadecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

RN   651331-38-3 CAPLUS
CN   1H-Indole-3-dodecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

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RN   651331-40-7 CAPLUS
CN   1H-Indole-3-hexadecanol, 6-methoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)16-OH

IT   812653-19-3P 812653-21-7P
      RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
      (Biological study); PREP (Preparation)
         (preparation of di(methoxy)indole fatty alc. and study of its activity
         toward promotion of differentiation of neural stem cell-derived
         neurospheres into neurons)
RN   812653-19-3 CAPLUS
CN   1H-Indole-3-octadecanol, 4,5-dimethoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)18-OH
  OMe

RN   812653-21-7 CAPLUS
CN   1H-Indole-3-octadecanol, 5,6-dimethoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)18-OH
MeO

IT   812653-18-2P 812653-20-6P
      RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
      (Biological study); PREP (Preparation)
         (preparation of di(methoxy)indole fatty alc. and study of its activity
         toward promotion of differentiation of neural stem cell-derived
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         scavenger)
RN   812653-18-2 CAPLUS
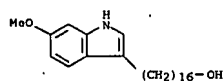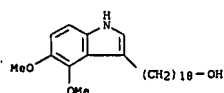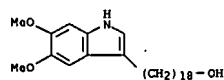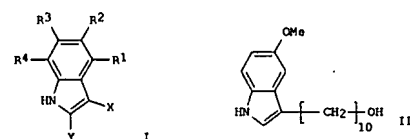CN   1H-Indole-3-hexadecanol, 4,5-dimethoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)16-OH
  OMe

RN   812653-20-6 CAPLUS
CN   1H-Indole-3-hexadecanol, 5,6-dimethoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)16-OH
MeO

REFERENCE COUNT: 31   THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2004:80647 CAPLUS
DOCUMENT NUMBER: 140:145999
TITLE: Preparation of indole derivatives as stem cell
                         differentiation promoters
INVENTOR(S):   Luu, Bang; Coowar, Djalil; Mohier, Ellane; Yamada,
                         Masashi; Suma, Yukie; Suzuki, Hiroto
PATENT ASSIGNEE(S):   Meiji Dairies Corporation, Japan
SOURCE: PCT Int. Appl., 53 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

      PATENT NO.   KIND DATE   APPLICATION NO.   DATE
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      WO 2004009545   A1   20040129   WO 2003-JP9244   20030722
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
           CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
           GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
           LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
           PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
           TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
           KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
           FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
           BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
      CA 2490878   A1   20040129   CA 2003-2490878   20030722
      AU 2003248091   A1   20040209   AU 2003-248091   20030722
      EP 1533299   A1   20050525   EP 2003-765343   20030722
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
           IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
      CN 1668587   A   20050914   CN 2003-817193   20030722
      US 2005261357   A1   20051124   US 2005-520136   20050103
PRIORITY APPLN. INFO.:   JP 2002-211327   A   20020719
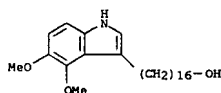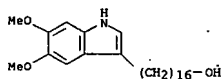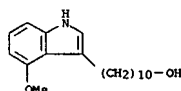   WO 2003-JP9244   W   20030722
OTHER SOURCE(S):   MARPAT 140:145999
.GI

[structure I with R3, R2, R4, R1, HN, X, Y]   [structure II with OMe, HN, CH2, 10, OH]

AB   The title indole derivs. with general formula of I [wherein R1-R4 =
      independently alkoxy, H, alkyl, acetyl, or OH; X and Y = independently
      (CH2)nOH or H; n = 0-30) are prepared as stem cell differentiation
      promoters, and are useful for the treatment of neuropathy (no data). For
      example, the compound II was prepared in a multi-step synthesis. I promoted
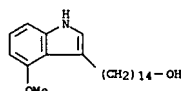
Karen Cheng

      stem cell differentiation in rat.
IT   651331-26-9P 651331-27-0P 651331-28-1P
      651331-30-5P 651331-31-6P 651331-32-7P
      651331-33-8P 651331-34-9P 651331-35-0P
      651331-36-1P 651331-37-2P 651331-38-3P
      651331-39-4P 651331-40-7P 651331-41-8P
      651331-42-9P 651331-43-0P 651331-44-1P
      651331-45-2P 651331-46-3P
      RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
         (drug candidate; preparation of indole derivs. as stem cell
      differentiation
         promoters)
RN   651331-26-9 CAPLUS
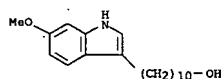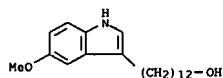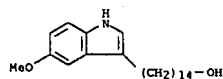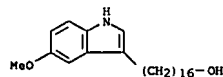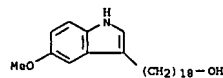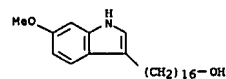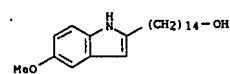CN   1H-Indole-3-decanol, 5-methoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)10-OH

RN   651331-27-0 CAPLUS
CN   1H-Indole-3-decanol, 4-methoxy- (9CI) (CA INDEX NAME)

[indole structure] (CH2)10-OH
  OMe

RN   651331-28-1 CAPLUS
CN   1H-Indole-3-tetradecanol, 4-methoxy- (9CI) (CA INDEX NAME)

[indole structure] (CH2)14-OH
  OMe

RN   651331-30-5 CAPLUS
CN   1H-Indole-3-decanol, 6-methoxy- (9CI) (CA INDEX NAME)

MeO [indole structure] (CH2)10-OH

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RN   651331-31-6 CAPLUS
CN   1H-Indole-3-dodecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₂—OH

RN   651331-32-7 CAPLUS
CN   1H-Indole-3-tetradecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₄—OH

RN   651331-33-8 CAPLUS
CN   1H-Indole-3-hexadecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₆—OH

RN   651331-34-9 CAPLUS
CN   1H-Indole-3-octadecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₈—OH

RN   651331-35-0 CAPLUS
CN   1H-Indole-3-dodecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₂—OH

RN   651331-36-1 CAPLUS
CN   1H-Indole-3-hexadecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₆—OH

RN   651331-37-2 CAPLUS
CN   1H-Indole-3-octadecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₈—OH

RN   651331-38-3 CAPLUS
CN   1H-Indole-3-dodecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₂—OH

RN   651331-39-4 CAPLUS
CN   1H-Indole-3-tetradecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₄—OH

RN   651331-40-7 CAPLUS
CN   1H-Indole-3-hexadecanol, 6-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₆—OH

RN   651331-41-8 CAPLUS
CN   1H-Indole-2-tetradecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₄—OH

RN   651331-42-9 CAPLUS
CN   1H-Indole-2-hexadecanol, 5-methoxy- (9CI)   (CA INDEX NAME)

MeO—[indole] (CH₂)₁₆—OH
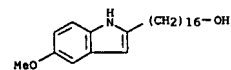
RN   651331-43-0 CAPLUS
CN   1H-Indole-2-tetradecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₄—OH
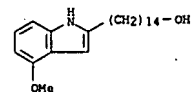
RN   651331-44-1 CAPLUS
CN   1H-Indole-2-hexadecanol, 4-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₆—OH
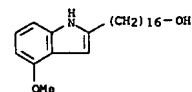
RN   651331-45-2 CAPLUS
CN   1H-Indole-2-tetradecanol, 7-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₄—OH
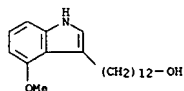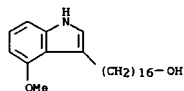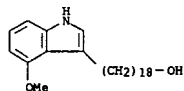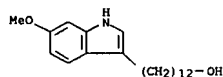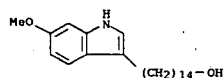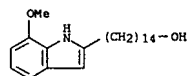
RN   651331-46-3 CAPLUS
CN   1H-Indole-2-hexadecanol, 7-methoxy- (9CI)   (CA INDEX NAME)

[indole, OMe] (CH₂)₁₆—OH
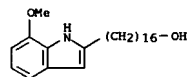
REFERENCE COUNT: 78   THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Karen Cheng